

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|--|--|------------------|---------|------------------|
| S1 | 0 | (kazuoki near masugatani).in. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 11:54 |
| S2 | 1401 | (makoto near tanaka).in. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 14:27 |
| S3 | 14 | (kazuoki near matsugatani).in. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/06 17:18 |
| S4 | 1414 | ((makoto near tanaka).in.) or ((kazuoki near matsugatani).in.) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/06 17:18 |
| S5 | 6 | ((makoto near tanaka).in.) or ((kazuoki near matsugatani).in.)) and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/06 17:35 |
| S6 | 124 | ((lead same lag) or (late or early)) and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/07 17:17 |
| S7 | 125 | ((lead same lag) or (late or early)) and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:19 |
| S8 | 94 | ((lead same lag) or (late or early)) and ofdm) and (carrier or channel) and amplitude and phase | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/06 17:39 |
| S9 | 40 | ((lead same lag) or (late or early)) and ofdm) and (carrier or channel) and amplitude and phase) and (music or esprit) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/06 17:50 |
| S10 | 245856 | antenna\$3 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/06 17:51 |
| S11 | 7 | antenna\$3 and (((lead same lag) or (late or early)) and ofdm) and (carrier or channel) and amplitude and phase) and (music or esprit)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/06 17:51 |

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|-----|------|---|--|----|----|------------------|
| S12 | 125 | ((lead same lag) or (late or early)) and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:24 |
| S13 | 95 | ((((lead same lag) or (late or early)) and ofdm) and phase and amplitude | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:24 |
| S14 | 54 | ((lead same lag) or (late same early)) and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:42 |
| S15 | 49 | ((((lead same lag) or (late same early)) and ofdm) and phase and amplitude | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:24 |
| S16 | 0 | ((lead same lag) or (late same early)).drwd. and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:42 |
| S17 | 816 | ((lead same lag) or (late same early)).drwd. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:42 |
| S18 | 0 | ((((lead same lag) or (late same early)).drwd.) and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:45 |
| S19 | 3 | ((((lead same lag) or (late same early)).drwd.) and (antenna near array) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:47 |
| S20 | 1123 | ofdm and delay | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:47 |
| S21 | 473 | ofdm and delay and amplitude and phase | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:49 |
| S22 | 455 | (ofdm and delay and amplitude and phase) and (carrier or channel) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:48 |
| S23 | 323 | (ofdm and delay and amplitude and phase) and ((carrier or channel) same amplitude same phase) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:48 |

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|-----|------|--|--|----|-----|------------------|
| S24 | 160 | ((ofdm and delay and amplitude and phase) and ((carrier or channel) same amplitude same phase)) and antenna\$2 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:48 |
| S25 | 107 | ((ofdm and delay and amplitude and phase) and ((carrier or channel) same amplitude same phase)) and antenna\$2) and (guard or preamble) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 14:49 |
| S26 | 19 | ((ofdm and delay and amplitude and phase) and ((carrier or channel) same amplitude same phase)) and antenna\$2) and (guard or preamble)) and (delay same amplitude same phase) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 15:24 |
| S27 | 3744 | delay with phase with amplitude | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 15:25 |
| S28 | 47 | ofdm and (delay with phase with amplitude) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 15:30 |
| S29 | 44 | ofdm and ((carrier or channel) with delay with timing) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 17:01 |
| S30 | 28 | ofdm and ((carrier) with delay with timing) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 17:14 |
| S31 | 9 | carriers and ((timing near delay) with measure\$6) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/07 17:15 |
| S32 | 51 | ((lead\$3 with lag\$3) or (late with early)) and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/07 17:40 |
| S33 | 45 | ((lead\$3 with lag\$3) or (late with early)) and ofdm) and timing | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/07 17:18 |
| S34 | 8 | ((lead\$3 with lag\$3) or (late with early)) and ofdm) and timing) and ((antenna near plurality) or antennas or antennae) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/07 17:41 |

EAST Search History

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|-----|-------|---|--|----|-----|------------------|
| S35 | 3193 | (carrier or subcarrier or sub\$2carrier or channel) near (delay or late or lag or lagging) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 17:51 |
| S36 | 55 | ((carrier or subcarrier or sub\$2carrier or channel) near (delay or late or lag or lagging)) and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 17:32 |
| S37 | 10 | ((("6084927") or ("6178025") or ("6459744") or ("6522866") or ("6628730")).PN. | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/07 17:32 |
| S38 | 773 | ((lead\$3 with lag\$3) or (late with early)).drwd. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/07 17:41 |
| S39 | 474 | (carrier or subcarrier or sub\$2carrier or channel) and (((lead\$3 with lag\$3) or (late with early)).drwd.) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 17:41 |
| S40 | 40 | ((carrier or subcarrier or sub\$2carrier or channel) and (((lead\$3 with lag\$3) or (late with early)).drwd.)) and ((antenna near plurality) or antennas or antennae) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/07 17:41 |
| S41 | 6284 | (carrier or subcarrier or sub\$2carrier or channel) with (delay or late or lag or lagging) with "between" | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 17:51 |
| S42 | 68 | ((carrier or subcarrier or sub\$2carrier or channel) with (delay or late or lag or lagging) with "between") and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/07 17:51 |
| S43 | 41043 | (carrier or sub\$2carrier or channel) with (delay\$4 or lag\$4 or late) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/11 10:35 |
| S44 | 447 | ofdm and ((carrier or sub\$2carrier or channel) with (delay\$4 or lag\$4 or late)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/11 10:35 |
| S45 | 1916 | (carrier or sub\$2carrier or channel) with (delay\$4 or lag\$4 or late) with measur\$5 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/11 10:35 |

EAST Search History

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|-----|-------|--|--|----|-----|------------------|
| S46 | 18 | ofdm and ((carrier or sub\$2carrier or channel) with (delay\$4 or lag\$4 or late) with measur\$5) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/11 13:00 |
| S47 | 26 | "5867478".URPN. | USPAT | OR | OFF | 2004/10/11 10:53 |
| S48 | 852 | amplitude and phase and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/11 13:00 |
| S49 | 870 | amplitude and phase and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/11 13:00 |
| S50 | 41043 | (carrier or sub\$2carrier or channel) with (delay\$4 or lag\$4 or late) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/11 13:00 |
| S51 | 257 | (amplitude and phase and ofdm) and ((carrier or sub\$2carrier or channel) with (delay\$4 or lag\$4 or late)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/10/11 13:00 |
| S52 | 0 | (kazuoki near masugatani).in. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 14:26 |
| S53 | 1412 | (makoto near tanaka).in. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 14:28 |
| S54 | 4656 | multicarrier or (multi near carrier) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 15:07 |
| S55 | 195 | sony.as. and S54 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 14:29 |
| S56 | 81 | S55 and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 14:29 |
| S57 | 20 | S56 and phase and amplitude | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 15:07 |

EAST Search History

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|-----|--------|---|--|----|-----|------------------|
| S58 | 977099 | multicarrier or (multi near carrier) or subcarrier or (sub near carrier) or carrier | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 16:20 |
| S59 | 4364 | (esprit or music) and S58 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 15:08 |
| S60 | 92 | S59 and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 15:08 |
| S61 | 76 | S59 and ofdm and amplitude and phase | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 15:08 |
| S62 | 977099 | multicarrier or (multi near carrier) or subcarrier or (sub near carrier) or carrier | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 16:20 |
| S63 | 242221 | direction and S62 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 16:21 |
| S64 | 4904 | (direction same delay) and S62 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 16:21 |
| S65 | 195 | (direction same delay same demodulat\$4) and S62 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 16:23 |
| S66 | 6 | (direction same delay same demodulat\$4 same (guard or training)) and S62 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 16:50 |
| S67 | 438 | ofdm and (antennas or antennae) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 16:50 |
| S68 | 134 | S67 and phase and amplitude | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 14:57 |
| S69 | 97 | S68 and sync\$12 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 16:50 |

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|-----|--------|---|--|----|-----|------------------|
| S70 | 28 | S67 and ((phase and amplitude) same (guard or training)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 16:53 |
| S71 | 44 | S67 and ((phase and amplitude) same (guard or pilot or training)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/19 16:53 |
| S72 | 2 | ("6018317" "6087986").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/11/19 17:13 |
| S73 | 1 | ("6496144").URPN. | USPAT | OR | OFF | 2004/11/22 14:55 |
| S74 | 26383 | esprit or music | USPAT | OR | OFF | 2004/11/22 14:56 |
| S75 | 195133 | preamble or pilot or training or guard | USPAT | OR | OFF | 2004/11/22 14:56 |
| S76 | 3705 | (reamble or pilot or training or guard) same correlat\$4 | USPAT | OR | OFF | 2004/11/22 14:57 |
| S77 | 154160 | phase and amplitude | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 14:57 |
| S78 | 46 | S74 and S75 and S76 and S77 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 14:57 |
| S79 | 4245 | (preamble or pilot or training or guard) same correlat\$4 | USPAT | OR | OFF | 2004/11/22 14:57 |
| S80 | 58 | S74 and S75 and S79 and S77 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 16:20 |
| S81 | 4810 | correlat\$4 same (amplitude and phase) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/22 16:20 |
| S82 | 344129 | preamble or pilot or training or guard | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/22 16:20 |
| S83 | 69870 | music or esprit | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/22 16:20 |
| S84 | 77 | S81 and S82 and S83 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/22 16:26 |

EAST Search History

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|-----|--------|---|--|----|-----|------------------|
| S85 | 43 | ofdm and (correlat\$4 same (late or early or lag\$4 or lead\$4)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/22 16:28 |
| S86 | 5 | (esprit or music) and S85 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/22 16:29 |
| S87 | 56 | (esprit or music) and ofdm and correlat\$4 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/22 16:31 |
| S88 | 5 | (esprit) and ofdm and correlat\$4 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/22 16:38 |
| S89 | 9 | (delay same (amplitude and phase)) and esprit | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/22 16:39 |
| S90 | 9 | S89 and amplitude | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/22 16:39 |
| S91 | 8 | ("4965732" "5444451" "6070079" "6084928" "6087974" "6177906" "6215983" "6240098").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/11/22 17:16 |
| S92 | 4 | ((("6084928") or ("6311043"))).PN. | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 21:09 |
| S93 | 333294 | pilot or guard or preamble or training | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 22:27 |
| S94 | 0 | S92 and S93 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 21:09 |
| S95 | 2 | ("6545997").PN. | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 21:09 |

EAST Search History

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|----------|--------|---|--|----|-----|------------------|
| S96 | 2 | S93 and S95 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 21:16 |
| S97 | 17 | esprit and ((correlat\$4 or sync\$12) same S93) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 22:24 |
| S98 | 15825 | antenna near array | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 13:33 |
| S99 | 958 | guard near interval | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 22:26 |
| S10 0 | 17 | S98 and S99 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 22:25 |
| S10 1 | 7178 | guard with time | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 22:31 |
| S10 2 | 113 | S98 and S101 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 22:27 |
| S10 3 | 229714 | pilot or preamble or training | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 22:27 |
| S10 4 | 79 | S102 and S103 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 22:27 |
| S10 5 | 16 | ofdm and S104 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 22:27 |
| S10 6 | 773 | guard with time with (reconfigu\$6 or configur\$6 or set\$4) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/22 22:32 |
| S10 7 | 12 | S98 and S106 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 13:32 |

EAST Search History

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|------|-------|--|--|----|-----|------------------|
| S108 | 7644 | (separat\$4 or divid\$4) with data with (guard or preamble or header or training or known) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 14:07 |
| S109 | 15837 | antenna near array | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 13:33 |
| S110 | 47 | S108 and S109 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 13:33 |
| S111 | 2 | ("6018317" "6087986").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/11/23 13:39 |
| S112 | 51 | ofdm and (data with (guard or preamble or header or training or known)) and S109 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 14:20 |
| S113 | 2 | ("6311043").PN. | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 14:20 |
| S114 | 0 | (orthogonal or ofdm) and S113 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 14:23 |
| S115 | 2 | ("6084928").PN. | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 14:23 |
| S116 | 0 | (orthogonal or ofdm) and S115 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 14:27 |
| S117 | 19 | (US-5867478-\$ or US-5909436-\$ or US-5933421-\$ or US-6459744-\$ or US-6560209-\$ or US-6646980-\$ or US-6658063-\$ or US-6711221-\$ or US-6735242-\$ or US-6748015-\$ or US-6545997-\$ or US-6496144-\$ or US-6697633-\$ or US-6311043-\$ or US-5809087-\$ or US-6240098-\$ or US-6084928-\$ or US-6070079-\$).did. or (JP-2002016579-\$).did. | USPAT; JPO | OR | OFF | 2004/11/23 14:27 |

EAST Search History

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|----------|------|--|--|----|-----|------------------|
| S11 8 | 15 | (orthogonal or ofdm) and S117 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 14:31 |
| S11 9 | 6 | ofdm and esprit | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 14:32 |
| S12 0 | 2 | ("4750147").PN. | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 14:32 |
| S12 1 | 0 | S119 and S120 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 14:42 |
| S12 2 | 101 | (antenna near array) and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 14:43 |
| S12 3 | 59 | (antenna near array) and ofdm and delay | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 16:08 |
| S12 4 | 6 | (antenna near array) and ofdm and delay.ab. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 15:13 |
| S12 5 | 37 | (antennae or antennas) and ofdm and delay.ab. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 15:23 |
| S12 6 | 1272 | 375/148,136,148,149,150.ccls. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 15:24 |
| S12 7 | 3528 | 375/347,354.ccls. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 15:24 |
| S12 8 | 4722 | S126 or S127 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 15:24 |
| S12 9 | 12 | S123 and S128 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 16:08 |

EAST Search History

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|----------|-----|--|--|----|-----|------------------|
| S13 0 | 670 | 375/260.ccls. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 16:08 |
| S13 1 | 59 | (antenna near array) and ofdm and delay | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 16:08 |
| S13 2 | 3 | S130 and S131 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/23 16:08 |
| S13 3 | 775 | ofdm and (guard near (interval tim\$3)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/16 18:50 |
| S13 4 | 31 | S133 and (antenna\$2 same direction) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/16 19:27 |
| S13 5 | 423 | esprit | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/16 19:27 |
| S13 6 | 7 | S135 and ofdm | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/16 19:27 |
| S13 7 | 103 | music and esprit | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 14:40 |
| S13 8 | 31 | S137 and equali\$7 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 11:59 |
| S13 9 | 56 | music and esprit and demodulat\$4 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 14:58 |
| S14 0 | 4 | music and esprit and ((guard preamble) near time) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 14:59 |
| S14 1 | 103 | ((guard preamble) near time) and (antenna near array) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 15:05 |

EAST Search History

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|----------|-------|---|--|----|-----|------------------|
| S14 2 | 1859 | carrier near hole | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 15:05 |
| S14 3 | 0 | S142 and (antenna near array) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 15:06 |
| S14 4 | 31 | S142 same phase | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 15:06 |
| S14 5 | 1641 | carrier adj2 hole | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 15:06 |
| S14 6 | 298 | S145 and phase | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 15:07 |
| S14 7 | 24 | S145 same phase | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 15:07 |
| S14 8 | 396 | interpolat\$4 and (antenna near array) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 15:30 |
| S14 9 | 47 | ((amplitude and phase) same interpolat\$4) and (antenna near array) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 15:29 |
| S15 0 | 10583 | linear near interpolat\$4 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 15:29 |
| S15 1 | 16869 | (antenna near array) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 15:30 |
| S15 2 | 62 | S150 and S151 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 15:57 |
| S15 3 | 29 | ofdm and (linear near interpolat\$4) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 16:49 |

EAST Search History

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|----------|-------|---|---|----|-----|------------------|
| S15 4 | 6141 | (guard preamble) same synchroni\$7 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 16:49 |
| S15 5 | 16869 | antenna near array | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 16:49 |
| S15 6 | 113 | S154 and S155 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 16:57 |
| S15 7 | 73 | S156 and correlat\$4 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 17:10 |
| S15 8 | 12 | S155 and (((guard preamble) near time) with set\$4) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 17:11 |
| S15 9 | 103 | S155 and (((guard preamble) near time)) | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/18 17:11 |
| S16 0 | 420 | (configur\$4 set setting adaptive) with (guard near time) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 17:47 |
| S16 1 | 18906 | (configur\$4 set setting adaptive) with (guard preamble) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 17:47 |
| S16 2 | 90 | S155 and S161 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 11:55 |
| S16 3 | 2 | ("6708020").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/19 11:55 |

EAST Search History

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| S16 4 | 0 | (music esprit) and S163 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 11:56 |
| S16 5 | 2 | ("6115426").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/19 11:55 |
| S16 6 | 0 | (music esprit) and S165 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 12:11 |
| S16 7 | 488 | (antenna near array) and ofdm | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 12:11 |
| S16 8 | 25 | (US-5809087-\$ or US-5867478-\$ or US-5909436-\$ or US-5933421-\$ or US-6070079-\$ or US-6084928-\$ or US-6240098-\$ or US-6311043-\$ or US-6459744-\$ or US-6496144-\$ or US-6545997-\$ or US-6560209-\$ or US-6646980-\$ or US-6658063-\$ or US-6697633-\$ or US-6711221-\$ or US-6735242-\$ or US-6748015-\$ or US-6665545-\$ or US-6411257-\$ or US-6219561-\$ or US-6101399-\$ or US-6600447-\$ or US-6094421-\$).did. or (JP-2002016579-\$).did. | USPAT; JPO | OR | ON | 2005/08/19 12:12 |
| S16 9 | 11 | ofdm and S168 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 13:30 |
| S17 0 | 2 | ("6115426").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/19 13:30 |

EAST Search History

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|----------|---------|---|---|----|-----|------------------|
| S17 1 | 0 | S170 and synchroni\$7 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 13:51 |
| S17 2 | 2 | ("6229792").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/19 13:51 |
| S17 3 | 1 | correlat\$4 and S172 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 14:21 |
| S17 4 | 1 | guard and "6115426".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 14:30 |
| S17 5 | 2360451 | (add adder adding) "4" with (guard near information) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 14:31 |
| S17 6 | 7 | (add adder adding) with (guard near information) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 14:42 |
| S17 7 | 37 | (guard near time near information) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 14:47 |
| S17 8 | 735 | data with (guard near time) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 14:48 |

EAST Search History

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|----------|-----|--|---|----|-----|------------------|
| S17 9 | 42 | data near (guard near time) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 15:20 |
| S18 0 | 53 | (parameter data) near (guard near time) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 15:22 |
| S18 1 | 102 | transmi\$6 with (guard near (information parameter)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 15:22 |
| S18 2 | 2 | ("6658046").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/19 15:48 |
| S18 3 | 0 | voltage and S182 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/19 15:49 |
| S18 4 | 2 | ("6714511").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/23 16:27 |
| S18 5 | 2 | S184 and guard | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/23 16:33 |
| S18 6 | 291 | (antenna near array) and (guard same data) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/23 16:34 |

EAST Search History

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|----------|-------|--|--|----|----|------------------|
| S18 7 | 140 | (antenna near array) and (guard same data) | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/23 16:36 |
| S18 8 | 4 | S187 and (guard with parameter) | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/23 16:37 |
| S18 9 | 1 | S187 and (guard with (inform\$4)) | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/23 16:38 |
| S19 0 | 34 | S187 and (guard with information) | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/23 16:57 |
| S19 1 | 16823 | (adaptive configur\$4 chang\$4 set setting) with (guard) | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/23 17:02 |
| S19 2 | 21 | S186 and S191 | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/23 16:58 |
| S19 3 | 437 | (adaptive configur\$4 chang\$4 set setting) with (guard near time) | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/23 17:02 |
| S19 4 | 195 | S193 and phase | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/23 17:05 |
| S19 5 | 56 | guard near time near (information data) | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/24 09:26 |

EAST Search History

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|----------|-----|--------------------------------|---|----|-----|------------------|
| S19 6 | 2 | ("6058149").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/24 09:26 |
| S19 7 | 1 | (guard near time) and S196 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/24 09:55 |
| S19 8 | 2 | ("6115426").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/24 09:55 |
| S19 9 | 1 | (arriv\$4 direction) and S198 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/24 10:20 |
| S20 0 | 2 | ("5615409").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/24 10:21 |
| S20 1 | 1 | (amplitude phase) and S200 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/24 14:42 |
| S20 2 | 133 | ofdm same (antenna near array) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/24 14:42 |
| S20 3 | 58 | ofdm same (antenna near array) | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/24 14:42 |

EAST Search History

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|----------|----------|--|---|----|----|------------------|
| S20 4 | 30 | (US-5809087-\$ or US-5867478-\$ or US-5870388-\$ or US-5909436-\$ or US-5933421-\$ or US-6070079-\$ or US-6084928-\$ or US-6094421-\$ or US-6101399-\$ or US-6219561-\$ or US-6240098-\$ or US-6311043-\$ or US-6411257-\$ or US-6459744-\$ or US-6496144-\$ or US-6545997-\$ or US-6560209-\$ or US-6600447-\$ or US-6646980-\$ or US-6658063-\$ or US-6665545-\$ or US-6697633-\$ or US-6711221-\$ or US-6714511-\$ or US-6735242-\$ or US-6748015-\$).did. or (US-6275552-\$ or US-6463261-\$ or US-6058149-\$).did. or (JP-2002016579-\$).did. | USPAT; JPO | OR | ON | 2005/08/24 14:42 |
| S20 5 | 12 | S204 and ofdm | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/24 14:43 |
| S20 6 | 2870 | guard adj time | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:05 |
| S20 7 | 1789 | data same header same preamble | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:06 |
| S20 8 | 25 | S206 same S207 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:06 |
| S20 9 | 19390479 | @ad < "20000630" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:06 |

EAST Search History

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|----------|------|--|---|----|-----|------------------|
| S21 0 | 9 | S208 and S209 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:06 |
| S21 1 | 31 | (US-6545997-\$ or US-5909436-\$ or US-6714511-\$ or US-5933421-\$ or US-6711221-\$ or US-6735242-\$ or US-6240098-\$ or US-6275552-\$ or US-6646980-\$ or US-5867478-\$ or US-6311043-\$ or US-6459744-\$ or US-6101399-\$ or US-6496144-\$ or US-6094421-\$ or US-6070079-\$ or US-5809087-\$ or US-6748015-\$ or US-6697633-\$ or US-6560209-\$ or US-6665545-\$ or US-6600447-\$ or US-6463261-\$ or US-6084928-\$ or US-6658063-\$ or US-6411257-\$).did. or (US-6219561-\$ or US-6058149-\$ or US-5870388-\$ or US-6958987-\$).did. or (JP-2002016579-\$).did. | USPAT; JPO | OR | ON | 2006/03/03 17:13 |
| S21 2 | 2870 | guard adj time | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:13 |
| S21 3 | 9 | S211 and S206 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:26 |
| S21 4 | 2 | ("6115426").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/03/03 17:16 |
| S21 5 | 1 | guard and S214 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:17 |

EAST Search History

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|----------|-------|---|---|----|----|------------------|
| S21 6 | 27 | guard with (header and preamble and data) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:37 |
| S21 7 | 16 | S209 and S216 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:35 |
| S21 8 | 159 | (program\$5 variable) near guard | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:36 |
| S21 9 | 0 | S207 and S218 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:36 |
| S22 0 | 149 | guard near (time period) near (variable program\$6 set setting) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:36 |
| S22 1 | 89003 | (header preamble) same data | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:37 |
| S22 2 | 45 | S220 and S221 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/03 17:37 |
| S22 3 | 21 | S222 and S209 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/03/04 15:37 |

EAST Search History

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|----------|---|-----------------|---|----|-----|------------------|
| S22 4 | 2 | ("6275552").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/03/04 15:55 |
|----------|---|-----------------|---|----|-----|------------------|